enemies within the borders of a day. this broad territory. The Northern Normal and all other educain the valley, in every hamlet. mining camp and city, indeed share in grateful pride in the present success and future prom-Normal, but the Southern at boilers. Tempe, the University at Tucson throughout the territory.

the fall after graduation in June, ing fifteen passengers each will at

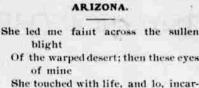
The machine which is to be have friends on the hill top and type of automobile construction. From bell to whistle it is a perfect locomotive. Its engines are their friends are legion, and they 10-horse power high speed marine engines, copied after the United States torpedo boat type. ise, not only of the Northern fitted with water coil and flash

There is a storage capacity for staff. and the public school system thirty gallons of oil and fiftyseven gallons of water.

The chauffeur manages forward and are making most satisfactory once be ordered by a company and backward movements and organized in Flagstaff. This com- entire action of the machine with The future welfare and pres- pany expects to open up a line a single small lever at the side perity of the Northern Normal of rapid transit between Flag of the seat. The engines can be is assured, since its permanency staff and the Grand Canyon, a reversed with absolute safety at and growth seem to be a matter distance of sixty-five miles, high speed. A double friction of personal pride on the part-of and each automobile will make bearing brake will bring the veevery loyal Arizonian. It has no the round trip of 130 miles once hicle to a stop at once. Three people can be accommodated on the front seat, while the trailer, used in testing the practicability which is a part of the machine tional institutions in Arizona of this represents the very latest itself, will accommodate three

> The party, consisting of Oliver Lippincott, T. M. Chapman and a representative of the Herald. will leave Los Angeles to meet the automobile, which is appropriately called "Toledo" after the Shone glorious on me, like her skies town of its manufacture, at Flag-

Mr. Lippincott, on account of The his long experience, was chosen



nadine

She touched with life, and lo, incar-

Stretched the fair skies o'er joyful vallevs, dight

In palm and citrus. Still pursued our flight Up mountain slope, through the mys-

terious pine, Down to the sculptured deep of her

Design Of Matter singing to Supernal Might. These are my realms!" she said: I turned to gaze

On her who, erst unseen, had guided

And lo, a child's face, framed in silken hair,

ablaze

With sunset; but, a child still, limbed was she

Like the young lion in his native lair. HARRISON CONRARD.

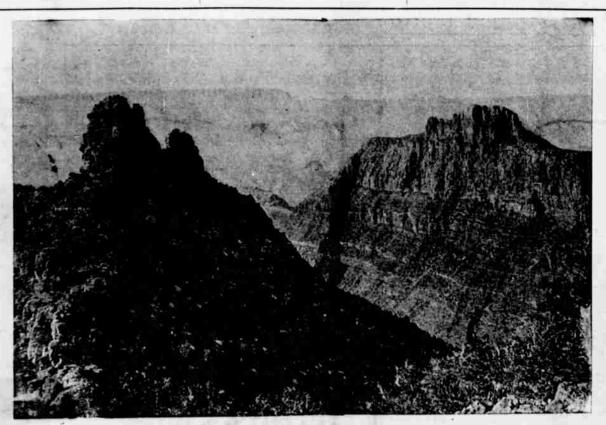
## Conscientious Rats.

The Arizona rats in some places seem to have become infected with the enterprising spirit of the country. They have actually embarked in the business of trading. At Challender, in this county, some time ago, a party of lumber men took possession of a cabin which they had been informed was fully furnished, but instead of the knives, forks and spoons they expected to find, behold, there were piles of pebbles and sticks and other heaps of rubbish. When they complained to the man who had sold them the cabin, he was at first much astonished, for stealing is not very common among lumbermen and miners, as it is too severely treated when an offender is discovered. On hearing of the rubbish heaps, however, he said that the "trade rats" must be the culprits. "Trade what!" exclaimed the disappointed men "Rats," he said. "We have a species here that can no more resist the shining metal than can a magpie or a jackdaw, but so conscientious are they that, whenever they remove an article, they bring back what they think is an equivalent in different kinds of rubbish." At first the men were inclined to resent this information, considering it an Arizona "tall" story, but, on investigation, they found the facts to be just as their informer stated

Arizona has the largest unbroken pine forest in the United States, covering an area of over 6,000 square miles.

The leasing system, so prevalent in Colorado, has never obtained to any extent in Arizona and California.

The United States government gave Mexico \$10,000,000 for the southern portion of Arizona and New Mexico.



SCENE IN THE GRAND CANYON.

## AUTOMOBILE LINE.

The Experiment Now Being Tried Between Flagstaff and Grand Canyon.

## COACHES TO CARRY FIFTEEN.

The Machines to Make the Round Trip Once a Day-The Very Latest Pattern of Auto mobile to be Used.

Grand Canyon is attracting attention all over the coast. In a recent issue the Los Angeles Herald says:

Lippincott is to make on Decem- or water. On the front is a headbig steam coaches accommodat- acetylene gas.

water reservoir is filled by a patent siphon operated by the engine's own steam. Its speed test, which was made between Toledo and Detroit, is forty-two miles an hour under 175 pounds of steam. The tires of the machine are four inches in width, with solid rubber an inch and a half in thickness.

pede its progress.

Back of the dashboard is the The experiment of running an air gauge and marine clock. On automobile from Flagstaff to the the right driving wheel is a cyclometer recording distances traveled, so arranged by an electrical contrivance as to register each mile and the time in which If the experimental test of the it is made. It registers time of steam automobile which Oliver all stops made for renewing fuel ber 31 from Flagstaff to the light twelve inches in diameter Grand Canyon is successful, three of 200 candle-power, lighted with

to make this experimental trial. on behalf of the manufacturers. He anticipates a very successful issue to the trial and expects to make the sixty-five miles to the point on Grand Canyon known as Hance's in considerably less time than the prescribed four

The big copper mines of Ari-The weight of this powerful zona are none of them very deep. machine, ready for the start, is The deepest workings of the copabout 2,200 pounds, and mud, per Queen are 1,000 feet, and of them. These rats are also comsnow or ice cannot seriously im- the United Verde 850 feet. In mon in Canada. these mines most of the ore thus far taken out is from points above the 600-foot level. The extreme depths given represent late development shafts.

> The big copper companies of Arizona each have from twenty to one hundred full claims of twenty acres each.

The Congress is the deepest mine in Arizona. It has an incline shaft 3,250 feet in length.